UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/532,258	10/02/2006	J. Keith Joung	62031(51588)	8615	
71284 7590 03/24/2008 EWARDS ANGELL PALMER & DODGE LLP			EXAMINER		
(Client: MGH, Partners) P.O. BOX 55874 BOSTON, MA 02205			LIU, SUE XU		
			ART UNIT	PAPER NUMBER	
				1639	
			MAIL DATE	DELIVERY MODE	
			03/24/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/532,258	JOUNG ET AL.	
Office Action Summary	Examiner	Art Unit	
	SUE LIU	1639	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timudication and will expire SIX (6) MONTHS from cause the application to become ABANDONE	√. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on  2a) This action is <b>FINAL</b> . 2b) This  3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 1-95 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-95 are subject to restriction and/or expressions.	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte	

Application/Control Number: 10/532,258 Page 2

Art Unit: 1639

## DETAILED ACTION

## Claim Status

Claims 1-95 are currently pending.

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-39, drawn to a method of selecting a zinc finger polypeptide.

Group 2, claim(s) 40, 42, 45, 87, 89 and 92, drawn to a method of regulating the expression of gene using a zinc finger polypeptide.

Group 3, claim(s) 41, 43, 44, 88, 90 and 91, drawn to a zinc finger polypeptide fused to one or more domains.

Group 4, claim(s) 46 and 93, drawn to a method of altering the structure of a gene using a zinc finger polypeptide.

Group 5, claim(s) 47 and 94, drawn to a method of cleaving a sequence of interest using a zinc finger polypeptide.

Group 6, claim(s) 95, drawn to a library of zinc finger polypeptides.

Group 7, claim(s) 48-86, drawn to a method of generating fusion proteins comprising zinc

finger polypeptides and other functional domains.

2. The inventions listed as Groups 1-7 do not relate to a single general inventive concept

under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special

technical features for the following reasons:

Each group of invention has a different technical feature. For examples, the technical

feature for the Group 1 invention is a zinc finger polypeptide; the technical feature of Group 2 is

a gene of interest; the technical feature of Group 3 is a fusion polypeptide; etc. Therefore,

Groups 1-7 are not so linked by the same or a corresponding special technical feature as to form

a single inventive concept. In addition, the special technical feature of Group 1 is known in the

prior art. Wolfe et al (Structure. Vol. 8: 739-750; 6/21/2000; cited in IDS) teach combinatorial

libraries of zinc finger proteins derived from Zif268 (e.g. Abstract). The Wolfe reference also

teaches selecting or screening for zinc finger proteins from a library of zinc finger proteins (e.g.

Figures 4 and 5; pp.741+). Therefore, the inventions lack unity as demonstrated by showing the

common technical feature(s) does not "define a contribution over the prior art" "a posterior".

See MPEP 1850.

Species Election

3. This application contains claims directed to more than one species of the generic

invention. These species are deemed to lack unity of invention because they are not so linked as

to form a single general inventive concept under PCT Rule 13.1.

Applicants are requested to further elect a single ultimate species for each of the

following:

Application/Control Number: 10/532,258 Page 4

Art Unit: 1639

A single specific number of "zinc fingers". (For Groups 1-7). a.

A single specific type of zinc finger polypeptide. (For Groups 1-7) b.

A single specific "functional domain" fused to the zinc finger polypeptide. (For

Groups 3-5 and 8).

Applicant is required, in reply to this action, to elect a single species to which the claims

shall be restricted if no generic claim is finally held to be allowable. The reply must also identify

the claims readable on the elected species, including any claims subsequently added. An

argument that a claim is allowable or that all claims are generic is considered non-responsive

unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of

claims to additional species which are written in dependent form or otherwise include all the

limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

the election, applicant must indicate which are readable upon the elected species. MPEP

§ 809.02(a).

2. The claims are deemed to correspond to the species listed above in the following manner:

Please see the above species selection for correspondence between the claims and the species

selection.

The following claim(s) are generic: 1-95.

The species lack the same technical feature, because they do not share a common core structure and/or function. The different species would also differ in their reactivity and the starting materials from which they are made. For examples, the different species of "zinc finger polypeptides" are different proteins with different amino acid sequences and 3-D folding structures, which proteins do not share the same core structure and do not have the same function. Similarly, the different species of "functional domains" are also structurally and/or functionally different from each other. For different species of method, the method steps for each species would differ. Consequently, the species have different issues regarding patentability. The different species do not share a common technical feature. Thus the unity of invention between each species subgroup is lacking.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In

Application/Control Number: 10/532,258 Page 6

Art Unit: 1639

either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

3. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Page 7 Application/Control Number: 10/532,258

Art Unit: 1639

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sue Liu whose telephone number is 571-272-5539.

examiner can normally be reached on M-F 9am-3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Doug Schultz can be reached at 571-272-0763. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Sue Liu/ Patent Examiner, AU 1639

3/14/07